

AMENDMENTS TO THE CLAIMS

1 1. (Currently amended) A permanent magnet rotor assembly for a brushless electric
2 motor, comprising:

3 at least two main magnetic poles, disposed on a periphery of a rotor, each of said at
4 least two main magnetic poles having [an] a mechanical opening angle A which covers N/2
5 times an angle of a stator segment, with N being an odd number that is greater than or
6 equal to 3, [and that has] so as to yield a [the] closest value smaller than $360/P$ degrees,
7 with P being the number of said at least two main magnetic poles, with each of said at least
8 two main magnetic poles having a central section R1 and two end sections R2, with R1
9 having an opening angle A1 which covers N/2 times said angle of each of said stator
10 sections, with N being an odd number greater or equal to 3, and A1 being smaller than said
11 opening angle A; wherein

12 each of said at least two main magnetic poles has a permanent magnet composed
13 of two plates with two ends located in central positions and protruding outward.

2. (Canceled)

1 3. The permanent magnet rotor assembly for a brushless electric motor according to
2 [claims 1 or 2] claim 1, wherein for each of said at least two main magnetic poles, said
3 central section and said end sections are connected by straight sections.

1 4. The permanent magnet rotor assembly for a brushless electric motor according to
2 [claims 1 or 2] claim 1, wherein each of said at least two main magnetic poles has outer

3 rims oriented parallel to outer edges of said permanent magnet thereof.

1 5. (New) A permanent magnet rotor assembly for a brushless electric motor,
2 comprising:

3 at least two main magnetic poles, disposed on a periphery of a rotor, each of said at
4 least two main magnetic poles having an opening angle A which covers $N/2$ times an angle
5 of a stator segment, with N being an odd number that is greater than or equal to 3, and that
6 has a [the] closest value smaller than $360/P$ degrees, with P being the number of said at
7 least two main magnetic poles, with each of said at least two main magnetic poles having
8 a central section $R1$ and two end sections $R2$, with $R1$ having an opening angle $A1$ which
9 covers $N/2$ times said angle of each of said stator sections, with N being an odd number
10 greater or equal to 3, and $A1$ being smaller than said opening angle A ; wherein

11 for each of said at least two main magnetic poles, said central section and said end
12 sections are connected by straight sections.

1 6. (New) The permanent magnet rotor assembly for a brushless electric motor
2 according to claim 5, wherein each of said at least two main magnetic poles has a
3 permanent magnet composed of two plates with two ends located in central positions and
4 protruding outward

1 7. (New) The permanent magnet rotor assembly for a brushless electric motor
2 according to claim 5, wherein each of said at least two main magnetic poles has outer rims